

Austin R Benson

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,500
citations

840119

11
h-index

676716

22
g-index

38
all docs

38
docs citations

38
times ranked

1785
citing authors

#	ARTICLE	IF	CITATIONS
1	Higher-order organization of complex networks. <i>Science</i> , 2016, 353, 163-166.	6.0	708
2	Motifs in Temporal Networks. , 2017, , .		361
3	Local Higher-Order Graph Clustering. , 2017, 2017, 555-564.		311
4	Simplicial closure and higher-order link prediction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11221-E11230.	3.3	266
5	Random Walks on Simplicial Complexes and the Normalized Hodge 1-Laplacian. <i>SIAM Review</i> , 2020, 62, 353-391.	4.2	113
6	Three Hypergraph Eigenvector Centralities. <i>SIAM Journal on Mathematics of Data Science</i> , 2019, 1, 293-312.	1.0	70
7	Higher-order clustering in networks. <i>Physical Review E</i> , 2018, 97, 052306.	0.8	66
8	Generative hypergraph clustering: From blockmodels to modularity. <i>Science Advances</i> , 2021, 7, .	4.7	61
9	Modeling User Consumption Sequences. , 2016, , .		60
10	Tensor Spectral Clustering for Partitioning Higher-order Network Structures. , 2015, 2015, 118-126.		57
11	The Spacey Random Walk: A Stochastic Process for Higher-Order Data. <i>SIAM Review</i> , 2017, 59, 321-345.	4.2	51
12	Sequences of Sets. , 2018, , .		37
13	Clustering in graphs and hypergraphs with categorical edge labels. , 2020, , .		35
14	The Local Closure Coefficient. , 2019, , .		33
15	Direct QR factorizations for tall-and-skinny matrices in MapReduce architectures. , 2013, , .		31
16	Silent error detection in numerical time-stepping schemes. <i>International Journal of High Performance Computing Applications</i> , 2015, 29, 403-421.	2.4	31
17	Sampling Methods for Counting Temporal Motifs. , 2019, , .		29
18	On the Relevance of Irrelevant Alternatives. , 2016, , .		25

#	ARTICLE	IF	CITATIONS
19	A framework for practical parallel fast matrix multiplication. ACM SIGPLAN Notices, 2015, 50, 42-53.	0.2	22
20	Improving the Numerical Stability of Fast Matrix Multiplication. SIAM Journal on Matrix Analysis and Applications, 2016, 37, 1382-1418.	0.7	19
21	Learning multifractal structure in large networks. , 2014, , .		15
22	Neighborhood and PageRank methods for pairwise link prediction. Social Network Analysis and Mining, 2020, 10, 1.	1.9	15
23	Unsupervised learning of dislocation motion. Acta Materialia, 2019, 181, 510-518.	3.8	12
24	Measuring directed triadic closure with closure coefficients. Network Science, 2020, 8, 551-573.	0.8	11
25	Computing Tensor Z -Eigenvectors with Dynamical Systems. SIAM Journal on Matrix Analysis and Applications, 2019, 40, 1311-1324.	0.7	10
26	A Parallel Directional Fast Multipole Method. SIAM Journal of Scientific Computing, 2014, 36, C335-C352.	1.3	9
27	Pairwise link prediction. , 2019, , .		8
28	Nonlinear Higher-Order Label Spreading. , 2021, , .		6
29	Planted hitting set recovery in hypergraphs. Journal of Physics Complexity, 2021, 2, 035004.	0.9	4
30	Learning Interpretable Feature Context Effects in Discrete Choice. , 2021, , .		4
31	Using Cliques with Higher-order Spectral Embeddings Improves Graph Visualizations. , 2020, , .		4
32	A Unifying Generative Model for Graph Learning Algorithms: Label Propagation, Graph Convolutions, and Combinations. SIAM Journal on Mathematics of Data Science, 2022, 4, 100-125.	1.0	4
33	The Gamma-Ray Imaging Framework. IEEE Transactions on Nuclear Science, 2013, 60, 528-532.	1.2	3
34	Network Interpolation. SIAM Journal on Mathematics of Data Science, 2020, 2, 505-528.	1.0	2
35	Modelling and analysis of tagging networks in Stack Exchange communities. Journal of Complex Networks, 2021, 8, .	1.1	2
36	Choice Set Confounding in Discrete Choice. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
37	Communication-Efficient Distributed Eigenspace Estimation. SIAM Journal on Mathematics of Data Science, 2021, 3, 1067-1092.	1.0	2
38	Automated Grain Yield Behavior Classification. Jom, 2019, 71, 3513-3520.	0.9	1